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 600 TGAGGGACCCCGGCCAGGCGCGGAGATGGGGGTGCACGgtgagtactcgcggtctgggcg 659  
 660 ctcccgcccgcccggtccctgtttgagcggggatattagcggcccggtattggccaggag 719  
 720 gtggctgggttcaaggaccggcgacttgtcaaggaccccggaagggggaggggggtggg 779  
 780 cagcctccacgtgccagcggggacttgggggagtccttggggatggcaaaacctgacct 839  
 840 gtgaaggggacacagtttgggggttgaggggaagaaggttgggggttctgctgtgccag 899  
 900 tggagaggaagctgataagctgataacctgggcgctggagccaccacttatctgccagag 959  
 960 gggaagcctctgtcacaccaggattgaagtttggccggagaagtggatgctggtagctgg 1019  
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 1080 ctgcatggttggggacaggaaggacgagctggggcagagacgtggggatgaaggaagct 1139  
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 1260 GTCTTGGGCGCCCCACACGCCCTCATCTGTGACAGCCGAGTCCTGGAGAGGTACCTCTTG 1319  
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 1500 atacctggaaactaggcaaggagcaaagccagcagatcctacggcctgtgggcccaggcc 1559  
 1560 agagccttcagggaccttgactcccggtgtgtgcatttcagACGGGCTGTGCTGAA 1619  
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 2400 GGGAGCCCCTGCAGCTGCATGTGGATAAAGCCGTCAGTGGCCTTCGCAGCCTCACCACTC 2459  
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 2580 gtggcactgcagcgacctcctgttttctccttggcagAAGGAAGCCATCTCCCTCCAGA 2639  
 2640 TGGGGCTCAGCTGCTCCACTCCGAACAATCACTGCTGACACTTCCGCAAACCTTCCG 2699  
 2700 AGTCTACTCCAATTTCTCCGGGGAAAGCTGAAGCTGTACACAGGGGAGGCCTGCAGGAC 2759  
 2760 AGGGGACAGATGACCAGGTGTGTCCACCTGGGCATATCCACCACCTCCCTCACCAACATT 2819  
 2820 GCTTGTGCCACACCTCCCCGCCACTCCTGAACCCCGTCGAGGGGCTCTCAGCTCAGCG 2879  
 2880 CCAGCTGTCCCATGGACACTCCAGTGCCAGCAATGACATCTCAGGGGCCAGAGGAACTG 2939  
 2940 TCCAGAGAGCAACTCTGAGATCTAAGGATGTACAGGGCCAACCTTAGGGCC 2991

**Fig. 1**

(ii) 5' modified Epo  
(From pASC2-TKdhfr-10)



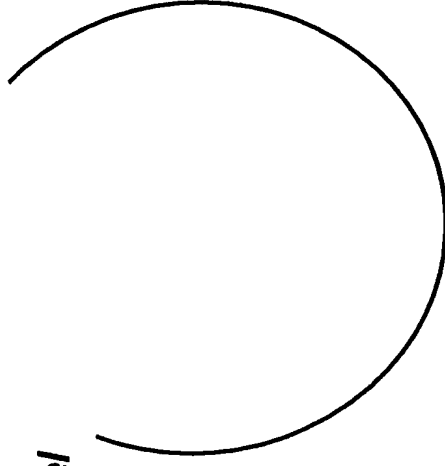
(iii) 3' modified Epo  
(PCR product) fragment

*HincII* ——— *XhoI*

0.4 kb

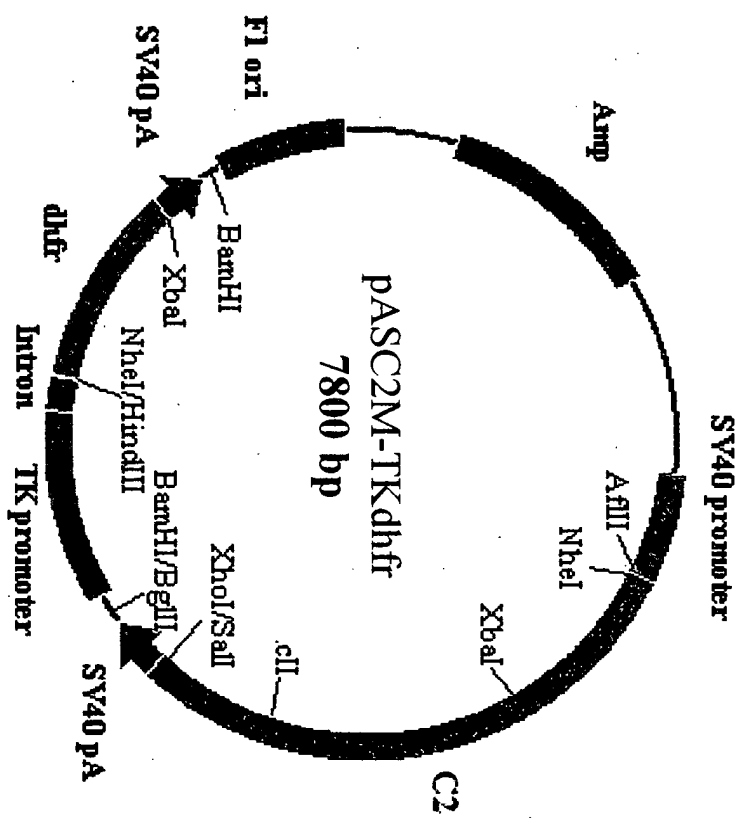
*Sall*

*NheI*



(i) pASC2-TKdhfr-10 5.6 kb

**Fig. 2**



**Fig. 3**

1 TTTTCTTTGTTTTGTTTCCACCA TGGGAGTGCACGgtgagtactcgcggtggtggtggt 60  
61 cccgcccccggttccctgtttgagcggggtatttagcggcggtataggccaggagg 120  
121 tggctgggttcaaggaccggcgacttgtcaaggacccggaaggggaggggggtggggc 180  
181 agcctccacgtgccagcggggacttgggggagtccttggggatggcaaaacctgacctg 240  
242 tgaaggggacacagtttgggggttgaggggaagaaggttgggggttctgctgtgccagt 300  
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421 ggtgggtgtgtcacacggcagcaggattgaatgaaggccaggaggagcagcacctgagtgc 480  
481 ttgcatggttggggacaggaaggacgagctggggcagagacgtggggatgaaggaagctg 540  
541 tccctccacagccacccttctccctcccgccctgactctcagcctggctatctgttctag 600  
601 AATGTCCTGCCTGGCTGTGGCTTCTCCTGTCCCTGCTGTCGCTCCCTCTGGGCTCCACG 660  
661 TCCTGGGCGCCCCACCACGCCTCATCTGTGACAGCCGAGTCCTGGAGAGGTACCTCTGG 720  
721 AGGCCAAGGAGGCCGAGAATATCACGgtgagacccttccccagcacatccacagaact 780  
781 cagcgtcagggttccaggaactcctccagatccaggaacctggcacttggtttgggt 840  
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901 tacctggaactaggcaaggagcaaagccagcagatcctacggcctgtgggcccagggcc 960  
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1021 ACTGCAGCTTGAATGAGAATATCACTGTCCCAGACACCAAAGTTAATTTCTATGCCTGGA 1080  
1081 AGAGGATGGAGgtgagttccttttttttttttttcttttcttttggagaatctcatttg 1140  
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1981 tggcactgcagcgacctcctgttttctccttggcagAAGGAAGCCATCTCCCTCCAGAT 2040  
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2101 GTCTACTCCAATTTCTCCGGGAAAGCTGAAGCTGTACACAGGGGAGGCCTGCAGGACA 2160  
2161 GGGACAGATGACCAGGTGTGTCC 2184

**Fig. 4**